<110> O'DOWD, BRIAN F.
GEORGE, SUSAN R.

<120> METHOD OF IDENTIFYING TRANSMEMBRANE PROTEIN-INTERACTING COMPOUNDS

<130> 3477-110

<140> PCT/CA03/00542
<141> 2003-04-11

<150> US 60/371,704
<151> 2002-04-12

<150> US 60/442,556
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<150> US 60/422,891
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<150> US 60/387,570
<151> 2002-06-12

<150> US 60/379,419
<151> 2002-05-13

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1   5   10   15

Thr Leu Leu

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1   5   10   15

Thr Leu Leu

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Met Arg Thr Leu Asn Thr Ser Ala Met Asp Gly Thr Gly Leu Val Val
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1   5   10   15

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Leu Ile

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<400> 20

Asn Pro Phe Arg Tyr Glu Lys Lys Phe Lys Arg Lys Ala Ala Phe Ile
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Leu Ile

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Thr Asn

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Thr Asn

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1               5                   10                  15

Thr Leu Leu



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Thr Leu Leu



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<210> 33
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Glu Leu Leu

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Asn Pro Leu Ile Tyr Cys Arg Ser Lys Lys Phe Lys Arg Ala Phe Gln
1   5   10   15

Glu Leu Leu

<210> 68
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Ser Ser Met Ala Met Val Pro Ile Tyr Ala Ala Tyr Lys Phe Cys Ser
1   5   10   15

Leu Pro Gly Ser Phe Arg Glu Lys
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<400> 74

Ser Ser Met Ala Met Val Pro Ile Tyr Ala Ala Lys Lys Phe Lys Arg
1   5   10   15

Leu Pro Gly Ser Phe Arg Glu Lys
            20

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1               5                   10                  15

Leu Pro Gly Ser Phe Arg Glu Lys
            20


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Ser Ser Met Ala Met Val Pro Ile Tyr Ala Ala Lys Lys Phe Lys Arg
1               5                   10                  15

Leu Pro Gly Ser Phe Arg Glu Lys
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<400> 85

Phe Leu Leu Trp Lys Asn Trp Arg Leu Lys Asn Ile Asn Ser Ile Asn
1   5   10   15

Phe Asp Asn Pro
            20

<210> 86
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<400> 86

Phe Leu Leu Trp Lys Asn Trp Lys Lys Phe Lys Arg Asn Ser Ile Asn
1   5   10   15

Phe Asp Asn Pro
            20

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<400> 91

Arg Leu Ile Ile Thr Pro Gly Thr Phe Lys Glu Arg Ile Ile Lys Ser
1   5   10   15

Ile Thr

<210> 92
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<220>
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<400> 92

Arg Leu Ile Ile Thr Pro Lys Lys Phe Lys Arg Arg Ile Ile Lys Ser
1   5   10   15

Ile Thr

<210> 93
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ccgcggcccg gaattcggat ggcatggttg gtg   33

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<400> 97

Phe His Pro Glu Gln Asn Val Pro Lys Arg Lys Arg Ser Leu Lys Ala

Val Val Thr Ala Ala Thr
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Val Val Thr Ala Ala Thr
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<210>  103
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<400>  103
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<210>  104
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<400>  104
gactgcagcc tggtggtacc gcagagcaag ccacatagct gggg                         44


<210>  105
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<400>  105
taatacgact cactataggg                                                     20


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<400> 107
gctgctctcc cacaaaaagt ttaagcggca gaagatctgg   40

<210> 108
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 108
ccagatcttc tgccgcttaa acttttgtg ggagagcagc   40

<210> 109
<211> 21
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<220>
<221> MISC_FEATURE

<222> (14)..(14)
<223> Xaa equals Orn

<400> 109

Thr Val Leu Ala Leu Leu Ser His Arg Arg Ala Leu Lys Xaa Lys Ile
1   5   10   15

Trp Pro Gly Ile Pro
            20

<210> 110
<211> 21
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<220>
<221> MISC_FEATURE

<222> (14)..(14)
<223> Xaa equals Orn

<400> 110

Thr Val Leu Ala Leu Leu Ser His Lys Lys Phe Lys Arg Xaa Lys Ile
1   5   10   15

Trp Pro Gly Ile Pro
            20

<210> 111
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 111
gctcttcggg ctcgagcagc gatgcgaccc tccgggacgg   40

<210> 112
<211> 39
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 112
ctatcctccg tggtaccgct gctccaataa attcactgc   39

<210> 113
<211> 37
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 113
cacatcgttc ggaagaagtt taagcggagg ctgctgc   37

<210> 114

27

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<211>   40
<212>   DNA
<213>   Artificial sequence

<220>
<223>   Primer

<400>   114
cctgcagcag cctccgctta aacttcttcc gaacgatgtg                              40


<210>   115
<211>   19
<212>   PRT
<213>   Artificial sequence

<220>
<223>   Peptide

<400>   115

Arg Arg Arg His Ile Val Arg Lys Arg Thr Leu Arg Arg Leu Leu Gln
1               5                   10                  15

Glu Arg Glu


<210>   116
<211>   19
<212>   PRT
<213>   Artificial sequence

<220>
<223>   Peptide

<400>   116

Arg Arg Arg His Ile Val Arg Lys Lys Phe Lys Arg Arg Leu Leu Gln
1               5                   10                  15

Glu Arg Glu


<210>   117
<211>   49
<212>   DNA
<213>   Artificial sequence

<220>
<223>   Primer

<400>   117
gaggactctg aacaccgaat tcgccgccat ggacgggact gggctggtg                   49
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<210>  118
<211>  45
<212>  DNA
<213>  Artificial sequence

<220>
<223>  Primer

<400>  118
gtgtggcagg attcatctgg gtaccgcggt tgggtgctga ccgtt                    45


<210>  119
<211>  41
<212>  DNA
<213>  Artificial sequence

<220>
<223>  Primer

<400>  119
cctctgagga cctgaaaaag aagagaaagg ctggcatcgc c                        41


<210>  120
<211>  41
<212>  DNA
<213>  Artificial sequence

<220>
<223>  Primer

<400>  120
ggcgatgcca gcctttctct tctttttcag gtcctcagag g                        41


<210>  121
<211>  33
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide

<400>  121

Asn Pro Ile Ile Tyr Ala Phe Asn Ala Asp Phe Arg Lys Ala Phe Ser
1                5                  10                  15

Thr Leu Leu Ser Ser Glu Asp Leu Lys Lys Glu Glu Ala Ala Gly Ile
            20              25                  30

Ala


<210>  122
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<211> 33
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 122

Asn Pro Ile Ile Tyr Ala Phe Asn Ala Lys Lys Phe Lys Arg Phe Ser
1   5   10   15

Thr Leu Leu Ser Ser Glu Asp Leu Lys Lys Lys Arg Lys Ala Gly Ile
            20   25   30

Ala

<210> 123
<211> 45
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 123
cctagtccgc agcaggccga attcgccacc atggacagca gcacc   45

<210> 124
<211> 44
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 124
gatggtgtga accggtacc gcgggcaatg gagcagtttc tgcc   44

<210> 125
<211> 45
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 125
cctagtccgc agcaggccga attcgccacc atggacagca gcacc   45

<210> 126
<211> 45

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<212>   DNA
<213>   Artificial sequence

<220>
<223>   Primer

<400>   126
ggatggtgtg agaccggtac cgcgggcaat ggagcagttt ctgcc                    45


<210>   127
<211>   30
<212>   DNA
<213>   Artificial sequence

<220>
<223>   Primer

<400>   127
gccttcctgg ataaaaaatt caagcgatgc                                     30


<210>   128
<211>   31
<212>   DNA
<213>   Artificial sequence

<220>
<223>   Primer

<400>   128
gcatcgcttg aattttttat ccaggaaggc g                                   31


<210>   129
<211>   7
<212>   PRT
<213>   Artificial sequence

<220>
<223>   Peptide

<400>   129

Pro Lys Lys Lys Arg Lys Val
1               5


<210>   130
<211>   8
<212>   PRT
<213>   Artificial sequence

<220>
<223>   Peptide
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31

<220>
<221> MISC_FEATURE

<222> (4)..(14)
<223> Xaa equals a sequence of any 11 any amino acids

<400> 130

Arg Arg Arg Xaa Lys Arg Arg Lys
1   5

<210> 131
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<220>
<221> MISC_FEATURE

<222> (3)..(17)
<223> Xaa equals a sequence of any 15 amino acids

<400> 131

Lys Lys Xaa Lys Lys Arg Lys
1   5

<210> 132
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 132

Lys Arg Lys Arg Arg Pro
1   5

<210> 133
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 133

Pro Lys Lys Asn Arg Leu Arg Arg Lys
1   5

<210> 134
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<220>
<221> MISC_FEATURE

<222> (5)..(24)
<223> Xaa equals a sequence of any 20 amino acids

<400> 134

Lys Arg Gln Arg Xaa Lys Lys Ser Lys Lys
1   5   10

<210> 135
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 135

Pro Ala Ala Lys Arg Val Lys Leu Asp
1   5

<210> 136
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 136

Gln Arg Lys Arg Gln Lys
1   5

<210> 137
<211> 17
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 137

His Arg Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu Thr Phe Lys Ser
1   5   10   15

Ile

<210> 138
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 138

Lys Lys Lys Tyr Lys Leu Lys
1   5

<210> 139
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 139

Lys Ser Lys Lys Lys Ala Gln
1   5

<210> 140
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 140

Lys Lys Lys Lys Arg Lys Arg Glu Lys
1   5

<210> 141
<211> 9

34

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<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide

<400>  141

Leu Lys Arg Pro Arg Ser Pro Ser Ser
1               5


<210>  142
<211>  13
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide


<220>
<221>  MISC_FEATURE

<222>  (4)..(25)
<223>  Xaa equals a sequence of any 22 amino acids

<400>  142

Lys Arg Lys Xaa Lys Glu Leu Gln Lys Gln Ile Thr Lys
1               5                   10


<210>  143
<211>  9
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide

<400>  143

Gly Lys Lys Lys Tyr Lys Leu Lys His
1               5


<210>  144
<211>  7
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide

<400>  144
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Lys Lys Lys Tyr Lys Leu Lys
1   5

<210> 145
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 145

Lys Ser Lys Lys Lys Ala Gln
1   5

<210> 146
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<220>
<221> MISC_FEATURE

<222> (4)..(353)
<223> Xaa equals a sequence of any 350 amino acids

<400> 146

Glu Glu Asp Xaa Lys Lys Lys Arg Glu Arg Leu Asp
1   5   10

<210> 147
<211> 25
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 147

Cys Tyr Phe Gln Lys Lys Ala Ala Asn Met Leu Gln Gln Ser Gly Ser
1   5   10   15

Lys Asn Thr Gly Ala Lys Lys Arg Lys
            20   25

<210> 148

<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<220>
<221> MISC_FEATURE

<222> (6)..(328)
<223> Xaa equals a sequence of any 323 amino acids

<400> 148

Asp Ile Leu Arg Arg Xaa Pro Lys Gln Lys Arg Lys
1   5   10

<210> 149
<211> 22
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 149

Ser Ser Asp Asp Glu Ala Thr Ala Asp Ser Gln His Ser Thr Pro Pro
1   5   10   15

Lys Lys Lys Arg Lys Val
            20

<210> 150
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<220>
<221> MISC_FEATURE

<222> (6)..(14)
<223> Xaa equals a sequence of any 9 amino acids

<400> 150

Arg Lys Lys Arg Lys Xaa Lys Ala Lys Lys Ser Lys
1   5   10

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<210>  151
<211>  7
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide


<220>
<221>  MISC_FEATURE

<222>  (3)..(13)
<223>  Xaa equals a sequence of any 11 amino acids

<400>  151

Lys Arg Xaa Lys Lys Leu Arg
1               5


<210>  152
<211>  11
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide


<220>
<221>  MISC_FEATURE

<222>  (5)..(27)
<223>  Xaa equals a sequence of any 22 amino acids


<220>
<221>  MISC_FEATURE

<222>  (5)..(26)
<223>  Xaa equals any amino acid

<400>  152

Arg Arg Pro Ser Xaa Arg Arg Lys Arg Gln Lys
1               5                   10


<210>  153
<211>  8
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide
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<220>
<221>  MISC_FEATURE

<222>  (4)..(14)
<223>  Xaa equals a sequence of any 11 amino acids

<400>  153

Arg Arg Arg Xaa Lys Arg Arg Lys
1               5


<210>  154
<211>  7
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide


<220>
<221>  MISC_FEATURE

<222>  (3)..(12)
<223>  Xaa equals a sequence of any 10 amino acids

<400>  154

Lys Arg Xaa Lys Lys Lys Leu
1               5


<210>  155
<211>  12
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Peptide


<220>
<221>  MISC_FEATURE

<222>  (5)..(11)
<223>  Xaa equals a sequence of any 7 amino acids

<400>  155

Arg Lys Arg Lys Xaa Arg Arg Ser Arg Tyr Arg Lys
1               5                   10


<210>  156
<211>  9
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39

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<212>    PRT
<213>    Artificial sequence

<220>
<223>    Peptide

<400>    156

Met Ile Ser Glu Ala Leu Arg Lys Ala
1                5


<210>    157
<211>    5
<212>    PRT
<213>    Artificial sequence

<220>
<223>    Peptide

<400>    157

Lys Lys Phe Lys Arg
1                5


<210>    158
<211>    9
<212>    PRT
<213>    Artificial sequence

<220>
<223>    Peptide

<400>    158

Ala Phe Ser Ala Lys Lys Phe Lys Arg
1                5
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